CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER No. 78-100

SITE CLOSURE REQUIREMENTS FOR:

CITY OF HAYWARD
WEST WINTON AVENUE CLASS II
SOLID WASTE DISPOSAL SITE
HAYWARD, ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. The City of Hayward, hereinafter called the discharger, owns a Class II solid waste disposal site. The site was formerly owned and operated by Oakland Scavenger Company and was used for disposal of Group 2 and 3 wastes. Disposal activity was discontinued in November 1974.

2. The 67 acre site, of which approximately 59 acres have been used for fill activity, is located at the end of West Winton Avenue adjacent to San Francisco Bay as shown on Attachment A, which is attached hereto and made a part of this Order. The parcel is part of the Hayward area Shoreline Plan, and will be used for parkland.

3. A site closure plan was submitted by Oakland Scavenger Company, the former owner, in January 1976. This site was closed in accordance with the plan and subsequent addendums which adequately address the specification of Regional Board Resolution No. 77-7.

4. The site is underlain by organic silts below which lies relatively impermeable Bay mud and stiff silty clays to a depth of at least 40 feet. Poor quality groundwater lies under the site both as perched water and as an aquifer about sixty (60) feet below the ground surface. Useable groundwater lies about 250 feet below the groundsurface and is well protected by an overlying impervious strata of bay mud. The Alameda County Flood Control Channel borders the site on the east.

5. Beneficial uses of San Francisco Bay are:

   Recreation
   Navigation
   Esthetic enjoyment
   Fish habitat
   Migratory bird and waterfowl habitat

6. Land within 1000 feet of the site is used for salt evaporation ponds, sanitary sewage facilities, and marshland.

7. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin in April 1975 and this Order implements the Water Quality Objectives stated in that Plan.

8. This Board has notified the dischargers and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.

9. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

10. This project involves the closure of a publicly owned Class II-2 facility with minor alterations to the land. Consequently, this project will not have a significant effect on the environment based upon the exemption provided in Section 15101, Title 14, California Administrative Code.

IT IS HEREBY ORDERED that City of Hayward and any other person who owns this site, shall comply with the following.

A. Site Closure Specifications

1. The solid waste disposal site shall be maintained in accordance with the closure plan cited in Finding 3 of this Order.

2. No group 1 or additional group 2 wastes shall be stored or deposited on this site.

B. Leachate and Drainage Specifications

1. Leachate or polluted water from this site shall not be discharged to waters of the State.

2. The completed disposal area shall remain protected from any washout or erosion which could occur as a result of a flood having a predicted frequency of once in 100 years. The perimeter drainage ditches and all other facilities shall be maintained to convey maximum anticipated storm runoff and to withstand differential settlement.

3. The migration of methane gas from the disposal site shall be controlled as necessary to prevent the creation of any nuisance.

4. Any waste materials which have slipped or threatened to leave the disposal site shall be removed and relocated at a suitable site upon authorization of the Executive Officer.

C. Provisions

1. The discharger shall comply with all portions of this Order immediately upon adoption of this Order.

2. This Board considers the current property owners or any new owner to have a continuing responsibility for correcting any problems associated with this solid waste disposal site during subsequent use of the land for other purposes.

3. The discharger shall notify this Board in writing of any proposed change in ownership of this site. The current owners shall notify and provide a copy of this Order to any subsequent owner of this property or portion thereof prior to sale.

4. The discharger shall file with the Board any monitoring program which may be directed by the Executive Officer.

5. Order No. 72-35 is hereby rescinded.

6. The discharger shall permit the Regional Board:

   a. Entry upon premises on which waste are located or in which any required records are kept,

   b. Access to copy any records required to be kept under terms and conditions of this order,

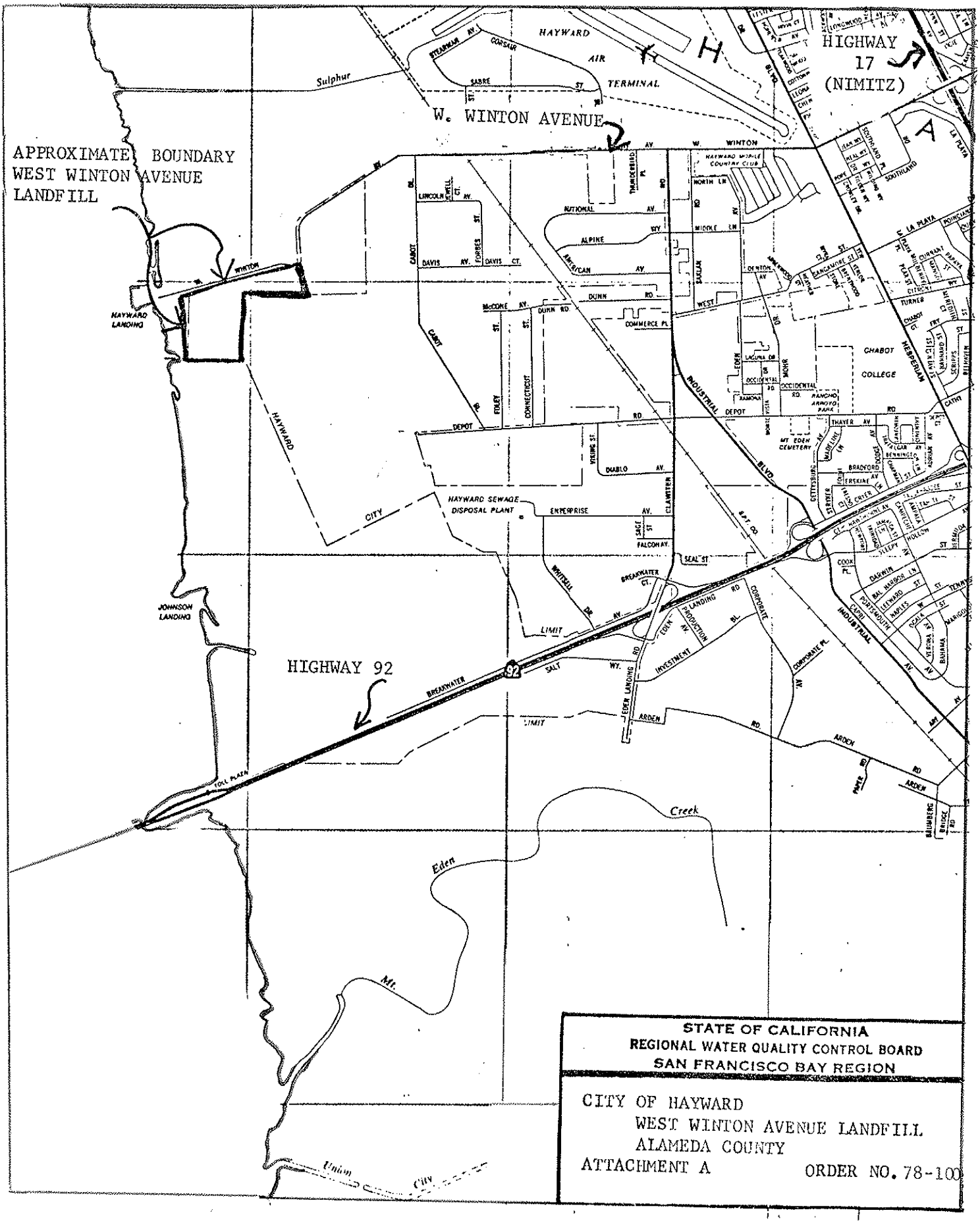
   c. Inspection of monitoring equipment or records, and

   d. Sampling of any discharge.

I, Fred H. Dierker, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on November 21, 1978.

FRED H. DIERKER
Executive Officer

Attachments:
Map A
Self-Monitoring Program



STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

CITY OF HAYWARD
WEST WINTON AVENUE LANDFILL
ALAMEDA COUNTY
ATTACHMENT A ORDER NO. 78-100

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

City of Hayward

West Winton Avenue Landfill

Alameda County

ORDER NO. 78-100

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

CITY OF HAYWARD
WEST WINTON CLASS III LANDFILL
ALAMEDA COUNTY

PART A

A. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No.73-16. This Self-Monitoring Program is issued in accordance with Provision C.4 of Regional Board Order No. 78-100.

The principal purposes of a self-monitoring program by a waste discharger are: (1) to document compliance with waste discharge requirements and prohibitions established by the Board, (2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge, (3) to develop or assist in the development of effluent standards of performance, pretreatment and toxicity standards, and other standards, and (4) to prepare water and wastewater quality inventories.

B. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to most recent version of Standard Methods for the Analysis of Wastewater and in accordance with an approved sampling and analysis plan.

Water and waste analysis shall be performed by a laboratory approved for these analyses by the State Department of Health. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his/her laboratory and shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

C. DEFINITION OF TERMS

1. A grab sample is a discrete sample collected at any time.

2. A composite sample is a sample composed of individual grab samples mixed in proportions varying not more than plus or minus five percent from the instantaneous rate of waste flow corresponding to each grab sample collected at regular intervals not greater than one hour, or collected by the use of continuous automatic sampling devices capable of attaining the proportional accuracy stipulated above throughout the period of discharge or 24 consecutive hours, whichever is shorter.

3. Receiving waters refers to any water which actually or potentially receives surface or groundwaters which pass over, through, or under waste materials or contaminated soils.

4. Standard observations refer to:

a. Receiving Waters
   1) Floating and suspended materials of waste origin: presence or absence, source, and size of affected area.
   2) Discoloration and turbidity: description of color, source, and size of affected area.
   3) Evidence of odors, presence or absence, characterization, source, and distance of travel from source.
   4) Evidence of beneficial use: presence of water associated wildlife
   5) Flow rate.
   6) Weather conditions: wind direction and estimated velocity, total precipitation during the previous five days and on the day of observation.

b. Perimeter of the waste management unit.
   1) Evidence of liquid leaving or entering the waste management unit, estimated size of affected area and flow rate. (Show affected area on map)
   2) Evidence of odors, presence or absence, characterization, source, and distance of travel from source.
   3) Evidence of erosion and/or daylighted refuse.

c. The waste management unit.
   1) Evidence of ponded water at any point on the waste management facility.
   2) Evidence of odors, presence or absence,

characterization, source, and distance of travel from source.

3) Evidence of erosion and/or daylighted refuse.

4) Standard analysis and measurements refer to:
   a. pH
   b. Electrical Conductivity (EC)
   c. Total Dissolved Solids (TDS)
   d. Total Phenols
   e. Chloride
   f. Total Organic Carbon
   g. Nitrate Nitrogen
   h. Total Kjeldahl Nitrogen
   i. Water elevation in feet above Mean Sea level
   j. Settleable Solids, ml/l/hr
   k. Turbidity, NTU
   l. EPA Method 601, identifying all peaks greater than 1 microgram/liter
   m. EPA Method 602, identifying all peaks greater than 1 microgram/liter.

D. SCHEDULE OF SAMPLING, ANALYSIS, AND OBSERVATIONS

The discharger is required to perform sampling, analysis, and observations according to the schedule specified in Part B, and the requirements in Article 5 of Chapter 15.

E. RECORDS TO BE MAINTAINED

Written reports shall be maintained by the discharger, and shall be retained for a minimum of five years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Board. Such records shall show the following for each sample:

1. Identity of sample and sample station number.

2. Date and time of sampling.

3. Date and time that analyses are started and completed, and name of the personnel performing the analyses.

4. Complete procedure used, including method of preserving the sample, and the identity and volumes of reagents used. A reference to a specific section of a reference required in Part A, Section B is satisfactory.

5. Calculation of results.

6. Results of analyses, and detection limits for each analyses.

F. REPORTS TO BE FILED WITH THE BOARD

1. Written self-monitoring reports shall be filed by the 15th day of the month following the report period. In addition an annual report shall be filed as indicated in F.3. The reports shall be comprised of the following:

a. Letter of Transmittal

A letter transmitting the essential points in each self-monitoring report should accompany each report. Such a letter shall include a discussion of any requirement violations found during the last report period, and actions taken or planned for correcting the violations, such as, operation and/or facilities modifications. If the discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. If no violations have occurred in the last report period this shall be stated in the letter of transmittal. Monitoring reports and the letter transmitting the monitoring reports shall be signed by a principal executive officer at the level of vice president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true, complete, and correct.

b. Each monitoring report shall include a compliance evaluation summary sheet. This sheet shall contain:

1) The sample mean and the sample variance for all sample sets taken from all compliance points, and shall determine if the difference between the mean of each sample set and the water quality protection standard is significant at the 0.05 level using Cochran's Approximation to the Behrens-Fisher Student's t-test as described in Appendix II of Chapter 15. The discharger may propose an alternative statistical procedure to be used in making this determination pursuant to Section 2555(h)(3) of Chapter 15. If a statistically significant difference is found this shall be reported as a suspected requirement violation in the letter of transmittal.

2) A graphic description of the velocity and direction of groundwater flow under/around the waste management unit, based upon the past and

present water level elevations and pertinent visual observations.

3) The method and time of water level measurement, the type of pump used for purging, pump placement in the well; method of purging, pumping rate, equipment and methods used to monitor field pH, temperature, and conductivity during purging, calibration of the field equipment, results of the pH, temperature conductivity and turbidity testing, well recovery time, and method of disposing of the purge water.

4) Type of pump used, pump placement for sampling, a detailed description of the sampling procedure; number and description of equipment, field and travel blanks; number and description of duplicate samples; type of sample containers and preservatives used, the date and time of sampling, the name and qualifications of the person actually taking the samples, and any other observations.

c. A map or aerial photograph shall accompany each report showing observation and monitoring station locations.

d. Laboratory statements of results of analyses specified in Part B must be included in each report. The director of the laboratory whose name appears on the laboratory certification shall supervise all analytical work in his/her laboratory and shall sign all reports of such work submitted to the Board.

1) The methods of analyses and detection limits must be appropriate for the expected concentrations. Specific methods of analyses must be identified. If methods other than EPA approved methods or Standard Methods are used, the exact methodology must be submitted for review.

2) In addition to the results of the analyses, laboratory quality control/quality assurance (QA/QC) information must be included in the monitoring report. The laboratory QA/QC information should include the method, equipment and analytical detection limits; the recovery rates; an explanation for any recovery rate that is less than 80%; the results of equipment and method blanks; the results of spiked and surrogate samples; the frequency of quality control analysis; and the name and qualifications of the person(s) performing the analyses.

e. An evaluation of the effectiveness of the leachate monitoring/ control facilities.

f. A summary and certification of completion of all standard observations for the waste management unit, the perimeter of the waste management unit, and the receiving waters.

2. CONTINGENCY REPORTING

a. A report shall be made by telephone of any seepage from the disposal area immediately after it is discovered. A written report shall be filed with the Board within five days. This report shall contain the following information:

1) a map showing the location(s) of discharge;
2) approximate flow rate;
3) nature of effects; i.e. all pertinent observations and analyses; and
4) corrective measures underway or proposed.

b. A report shall be made in writing to the Board within seven days if a statistically significant difference is found between a self-monitoring sample set and a WQPS. Notification shall indicate what WQPS(s) have been exceeded. The discharger shall immediately resample at the compliance point(s) where this difference has been found and analyze another sample set of at least four portions split in the laboratory from the source sample.

c. If resampling and analysis confirms the earlier finding of a statistically significant difference between self-monitoring results and WQPS(s) the discharger must submit to the Board within 90 days an amended Report of Waste Discharge for establishment of a verification monitoring program meeting the requirements of Section 2557 of Chapter 15. This submittal shall include the information required in Section 2556(b)(2) of Chapter 15.

d. The discharger must notify the Board within seven days if the verification monitoring program finds a statistically significant difference between samples from the verification monitoring program point of compliance and the WQPS(s).

e. If such a difference or differences are found by the verification monitoring program, it will be concluded that the discharger is out of compliance with this

Order. In this event the discharger shall submit within 180 days an amended Report of Waste Discharge requesting authorization to establish a corrective action program meeting the requirements of Section 2558 of Chapter 15. This submittal shall include the information required in Section 2557(g)(3) of Chapter 15.

3. REPORTING
By January 31 of each year the discharger shall submit an annual report to the Board covering the previous calendar year. This report shall contain:

a. Tabular and graphical summaries of the monitoring data obtained during the previous year.

b. A comprehensive discussion of the compliance record, and the corrective actions taken or planned which may be needed to bring the discharger into full compliance with the waste discharge requirements.

c. A map showing the area, if any, in which filling has been completed during the previous calendar year.

d. A written summary of the groundwater analyses indicating any change in the quality of the groundwater.

e. An evaluation of the effectiveness of the leachate monitoring/ control facilities.

4. A boring log shall be submitted for each sampling well established for this monitoring program, as well as a report of inspection or certification that each well has been constructed in accordance with the construction standards of the Department of Water Resources. These shall be submitted within 30 days after well installation.

Part B

1. DESCRIPTION OF OBSERVATION STATIONS AND SCHEDULE OF OBSERVATIONS

A. ON-SITE OBSERVATIONS

STATION	DESCRIPTION	OBSERVATIONS	FREQUENCY
V-1 thru V-'n'	Located on the waste disposal area as delineated by a 500 foot grid network.	Standard observations for the waste management unit.	Quarterly
P-1 thru P-'n' (perimeter)	Located at equidistant intervals not exceeding 1000 feet around the perimeter of the waste management unit.	Standard observations for the perimeter.	Quarterly

B. GROUND WATER MONITORING

STATION	DESCRIPTION	OBSERVATION	FREQUENCY
MW-1 thru MW-8	Ground water monitoring wells,as shown on the attached site map.	Standard analysis other than "j".	Quarterly

C. SEEPAGE MONITORING

STATION	DESCRIPTION	OBSERVATION	FREQUENCY
S-1 thru S-'n'	At any point(s) at which seepage occurs from the disposal area.	Standard observations for the perimeter, and standard analysis.	Daily until remedial action is taken and seepage ceases.

In addition the seepage should be initially analyzed for priority pollutant heavy metals and constituents expected to be present in leachate.

D. LEACHATE MONITORING

STATION	DESCRIPTION	OBSERVATION	FREQUENCY
L-1 thru L-3	Leachate monitoring wells as shown on the attached site map	Depth of leachate build up at base of land fill and elevation of leachate above MSL.	Quarterly

I, Steven R. Ritchie, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedures set forth in this Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in this Board's Order No. 78-100.

2. Is effective on the date shown below.

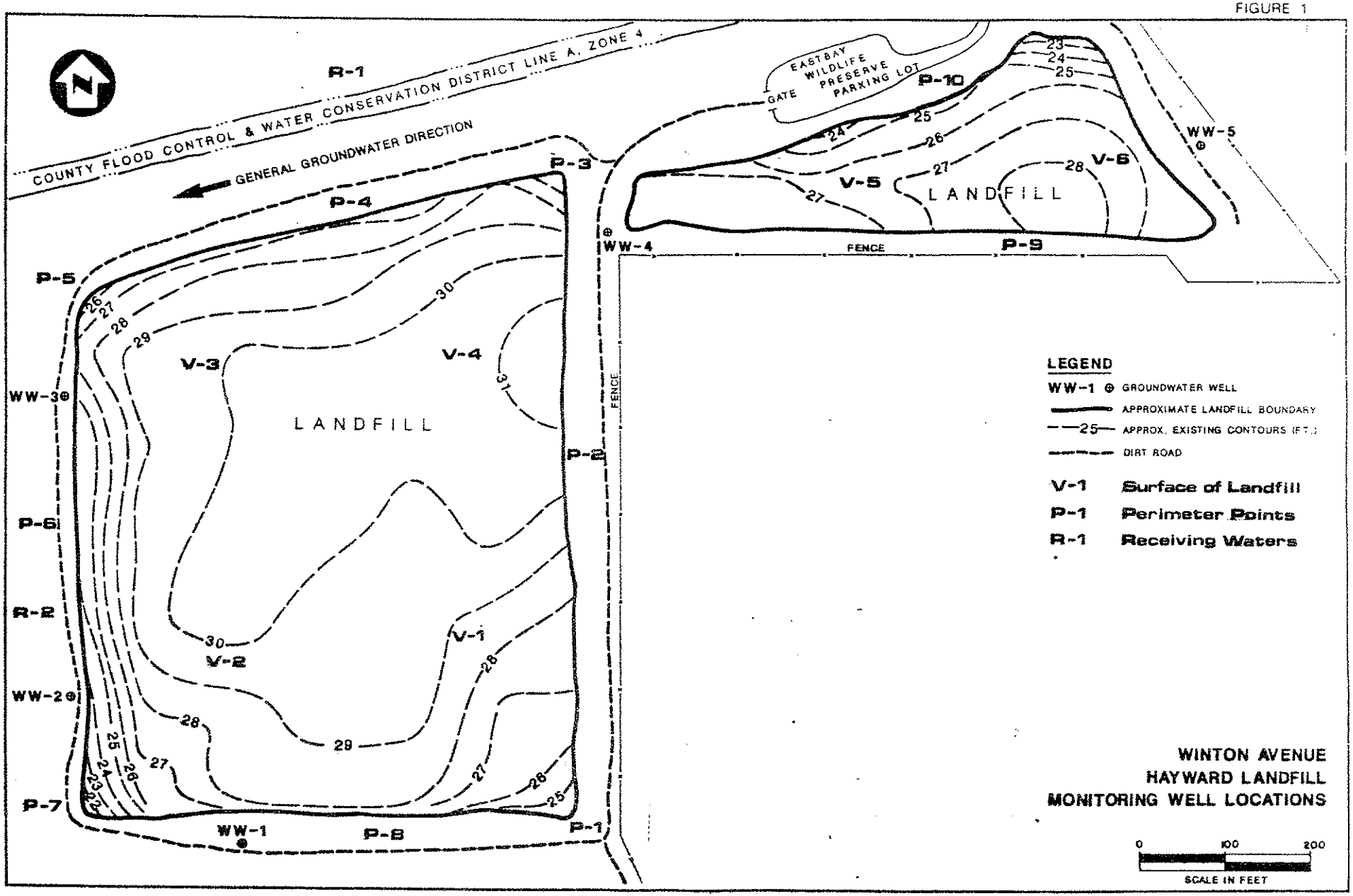
3. May be reviewed or modified at any time subsequent to the effective date, upon written notice from the Executive Officer.

Steven R. Ritchie
Executive Officer

Date Ordered: _____, 1991

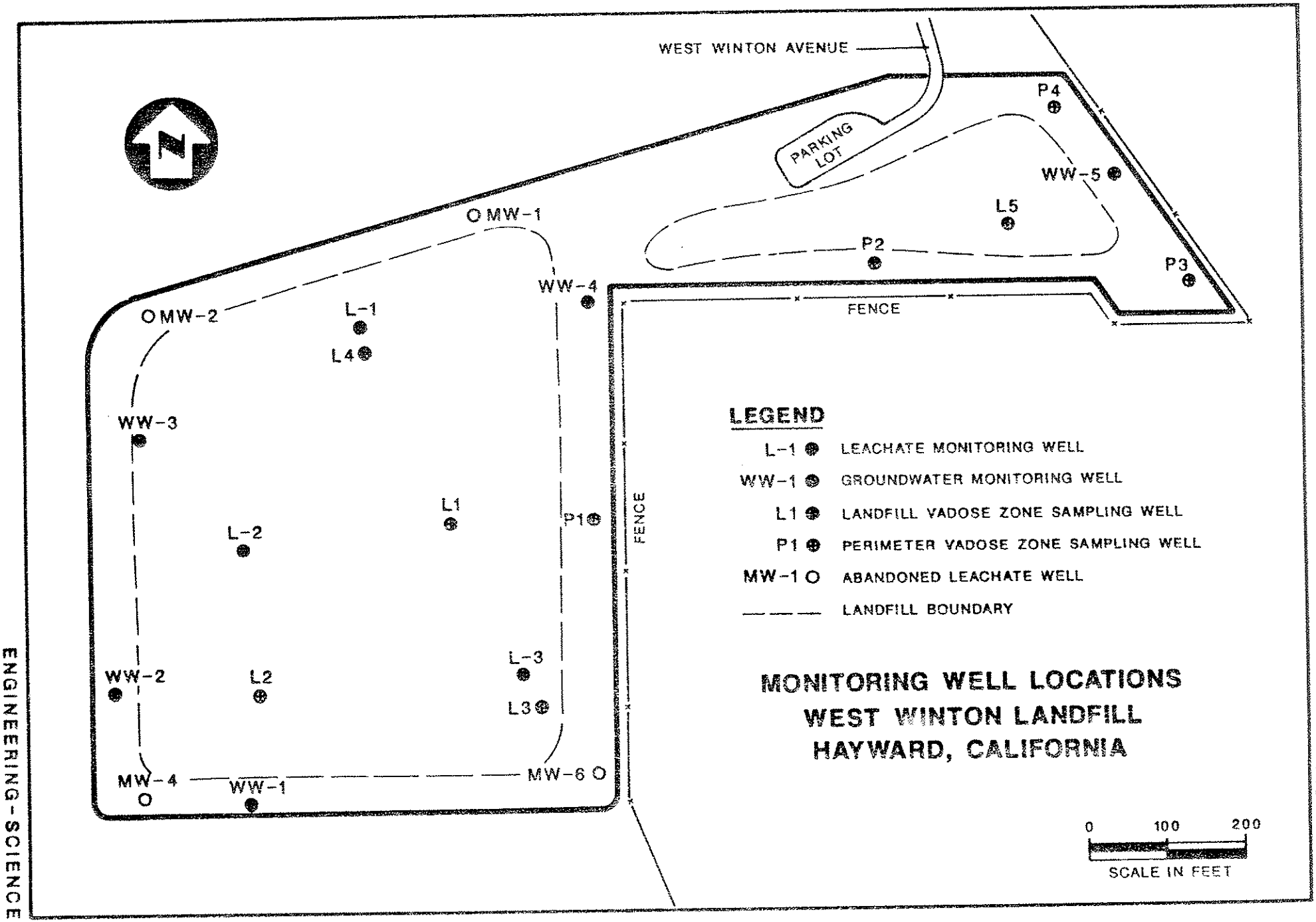
Attachment: Site Map

FIGURE 1



ATTACHMENT "A"

ENGINEERING-SCIENCE, INC



MONITORING WELL LOCATIONS
WEST WINTON LANDFILL
HAYWARD, CALIFORNIA

ENGINEERING-SCIENCE

FIGURE 2